UKS2 Half Termly Overview

Term Autumn 1 2020

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|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
| Science  LIGHT | \*Know that light is a form of energy.  \*Know that we need light to see things and that darkness is the absence of light.  \*Know that light travels in straight lines.  \*Know that light is reflected when it travels from a light source and then ‘bounces’ off an object.  \*Know that everything that we can see is either a light source or something that is reflecting light from a light source into our eyes. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that translucent objects allow some light to pass through, but some of the light changes direction as it passes through the object; this means that something seen through a translucent object is not clearly defined.  \*Know that opaque objects block light creating shadows and that light passes through transparent objects.  \*Know that opacity/transparency and reflectiveness are properties of a material. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that as objects move towards a light source, the size of the shadow increases.  \*Know that the changing of shadow size can be shown by drawing a diagram with straight lines representing light.  \*Know how to draw a diagram to show why the shape of a shadow will match the shape of an object. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that when light passes from one medium to another (e.g. from air to water), it changes direction; this is called refraction; this happens because light travels at different speeds in different media.  \*Know that white light comprises all the colours of light.  \*Know that white light refracted by two surfaces in a prism will spread out so that all of its constituent colours can be seen; this array of colours is called a spectrum; it happens because the different colours of that constitute white light travel at different speeds. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that the Sun is a light source, but that the Moon is not and is merely reflecting light from the Sun.  \*Know that many light sources give off light and heat.  \*Know that sunglasses can protect eyes from sunlight but looking at the Sun directly – even with sunglasses – can damage the eyes. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that when light reflects off an object, the angle of incidence is equal to the angle of reflection.  \*Know that a periscope takes advantage of the predictable angles of incidence and reflection to allow an image to be shown to a viewer. | **END OF UNIT**  **ASSESSMENT** |
| History  TUDORS | \* Know that the Tudor period began in 1485 when Henry VII became king after the culmination of the Wars of the Roses.  \*Know the Tudor monarchs and how they were related in a family tree. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that Henry VIII began the Reformation, the transformation of England from Catholicism to Protestantism.  \*Know some reasons why the British Empire expanded under Elizabeth 1’s reign. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that Plymouth began in the Middle Ages as a small fishing village taking advantage of its 2 sea inlets: the Tamar and Plym.  \*Know that by the 16th century, Plymouth had grown into a fair-sized town. Daily activities mostly centred on a flourishing fishing industry, along with the import and export of fruit, sugar, hemp, hops and wine.  \*Know key background information about Sir John Hawkins and know that he traded out of Plymouth.  \*Know key background information about Sir Francis Drake. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that Drake was mayor of Plymouth from 1581 and is credited with bringing fresh water from Dartmoor to the flourishing town by means of an aqueduct now known as Drake's Leat.  \*Know that Drake was captain of a voyage that circumnavigated the globe. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that Drake played a major part in the defeat of the Spanish Armada. | **KNOWLEDGE RETRIEVAL ACTIVITY**  \*Know that some people consider Hawkins and Drake to be controversial figures.  \*Know that some people believe that Hawkins and Drake were vitally important figures in the growth of Plymouth.  **Extended write - persuasive** | **END OF UNIT**  **ASSESSMENT** |
| Geography  MOUNTAINS, VOLCANOES, EARTHQUAKES | Mount Everest | Location of key mountains | Formation of mountains | Formation of volcanoes.  Difference to mountains | Location of volcanoes | Earthquakes | Revision  Assessment |
| Computing  SPREADSHEETS | Cells, rows & columns.  Battleships to learn. | Pixel art using spreadsheet | Pixel art using spreadsheet | Basic formulae, adding up shopping | Lands End to John o’Groats adding up mileage | Party planning, budgeting | Party planning, budgeting |
| Art  **Tudor Portraits** | **To understand the features of a portrait.**  Look at portrait work of Hans Holbein and examine some of the famous Tudor portraits of the royal family.    **Skills** – to use sketching techniques to understand facial proportions when creating a portrait | **Portrait drawing.**  **Portraits as historical documents.**                **Skills** – to continue to explore sketching techniques and proportion when drawing portraits. | **Tudor Portraits**  **Collage**    Plan andbegin to create a Tudor style portrait using fabric and other materials.        **Skills** – make artistic decisions including ideas on proportion, texture and colour. | **Tudor Portrait**  **Collage**    Create a Tudor style portrait using fabric and other materials.          **Skills** – make artistic decisions including ideas on proportion, texture and colour. | **Tudor Portrait collage.**    To evaluate own work. | **Photographic self portrait**    To think about composition, background and lighting to create a self-portrait. | **Photographic self portrait**    To think about composition, background and lighting to create a self-portrait. |